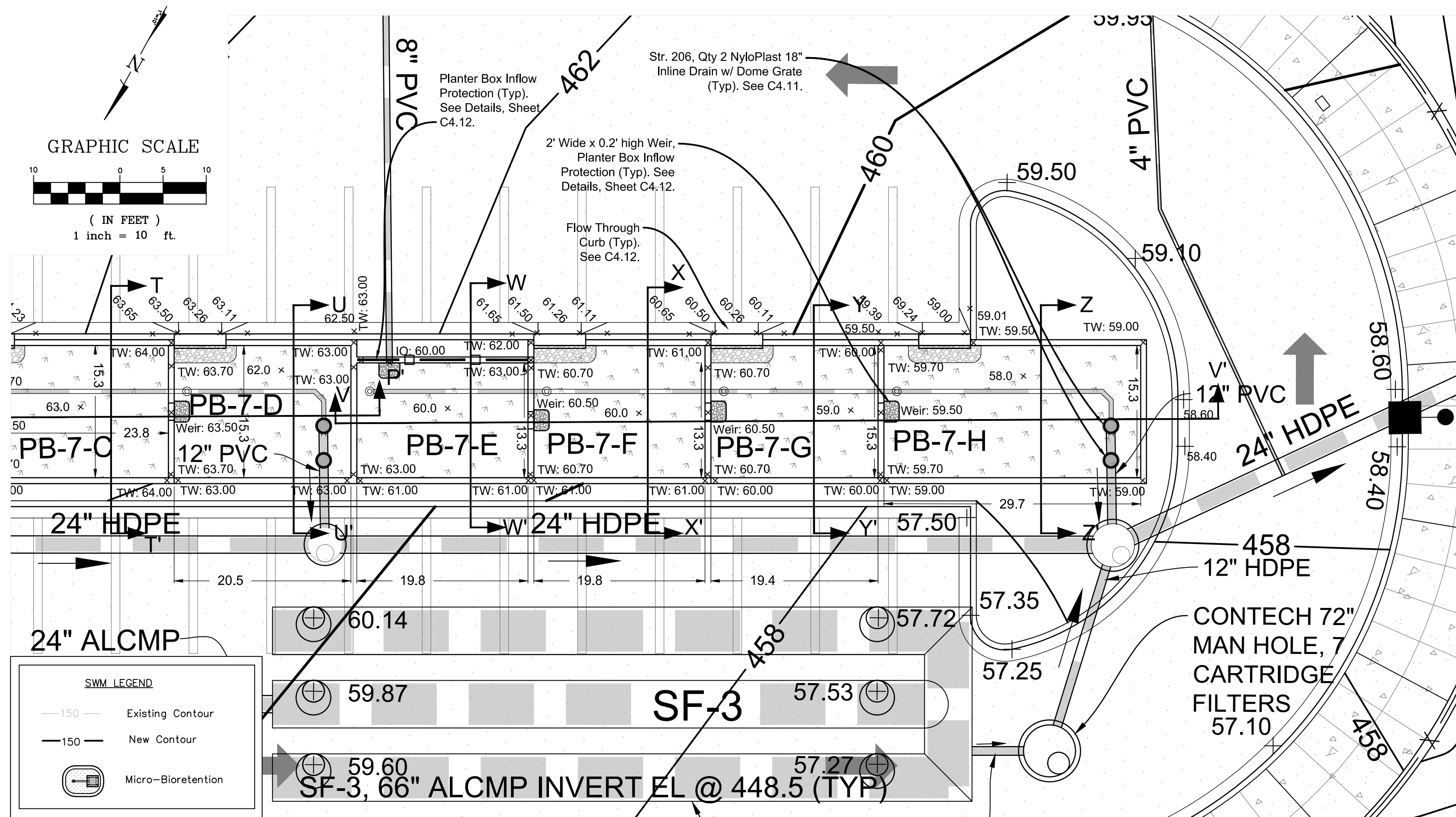
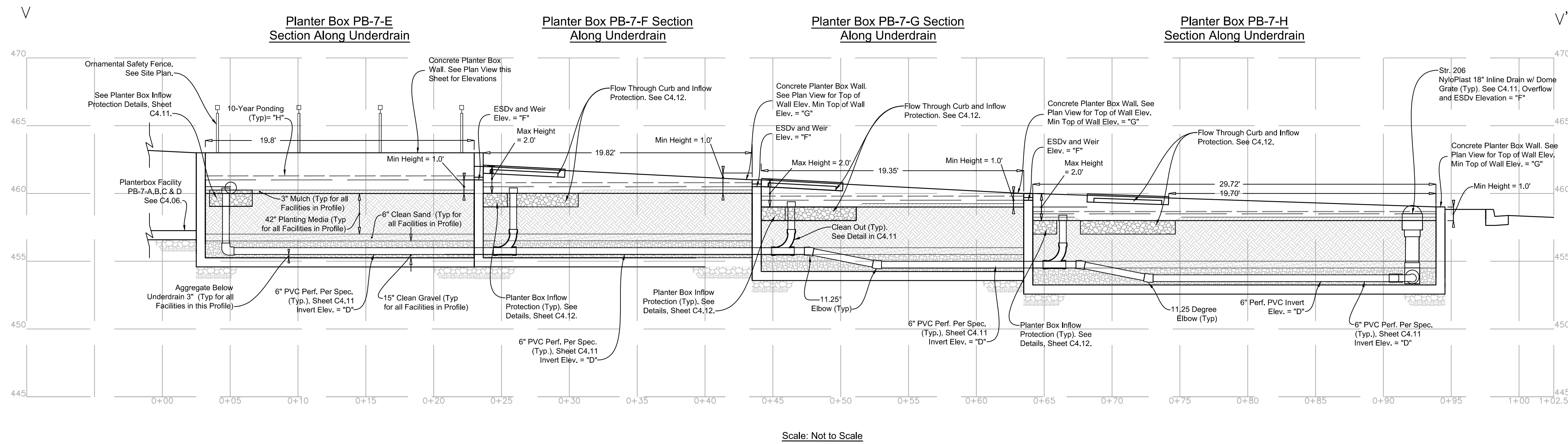


113111.dwg(SW)\_21.dwg, C4.08 SWM PB-7-E-H PLAN VIEW AND DETAILS SC014PB7EFGH, 12/10/2020 4:49:23 PM, Copyright © 2017, Meters, Headcode & Glascock, P.A.



Micro-Bioretention Planter Box Detailed Plan View PB-5-A,B,C,D

PB-7-E,F,G,H SOUTH SECTION  
ALONG UNDERDRAINS



Scale: Not to Scale

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR MICRO BIORETENTION FACILITY				
STAGE	MCDCPS INSPECTOR	OWNER/ DEVELOPER	MCDCPS INSPECTOR	OWNER/ DEVELOPER
1. Excavation for Micro Bioretention facility conforms to approved plans	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
2. Placement of stone backfill and underdrain system conforms to approved plans	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
3. Placement of filter media conforms to approved plans	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
5. Final grading and permanent stabilization conforms to approved plans	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE

**MANDATORY NOTIFICATION:** Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 311). The DPS inspector may waive an inspection and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. **Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead.** Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.

#### Design Engineer SWM Construction Observation Requirements

The contractor is required to contact the Design Engineer at (301) 670-0840 with at least 24 hours advance notice at the following stages of Micro-Bioretention (MB), Micro-Bioretention w/ Impervious Liner (MB(L)), Planter Box Micro-Bioretention (PB), and/or Bio-Swale (BS) facility construction:

- Facility excavation: MB, MB(L), BS
- Concrete slab and wall form work: PB
- Installation of impervious liner: MB(L)
- Aggregate installation
- Underdrain layout and installation
- Sand layer installation
- Planting media installation
- SWM plantings and landscaping installation

Failure to notify the Design Engineer may necessitate SWM facility reconstruction.

- SEE C4.11 FOR:
- REQUIRED AGGREGATE GRADATION
  - SAND SPECIFICATIONS
  - BIORETENTION AREA PLANTING SOIL DOCUMENTATION REQUIREMENTS
  - MICRO-BIORETENTION AREA SPECIFICATIONS

BIORETENTION FACILITY MAINTENANCE SCHEDULE	
TASK	RECOMMENDED INTERVAL
INSPECT AND REPAIR SOIL EROSION	MONTHLY AND AFTER HEAVY RAINS
REMOVE LEAVES, DEBRIS, TRASH, SILT, ETC. & REPLACE MULCH LAYER	MINIMUM 2 TIMES PER YEAR (SPRING AND FALL)
INSPECT PLANTS FOR DAMAGE & DISEASE/PEST PROBLEMS PRUNE AND TREAT PLANTS AS NEEDED & AS APPROPRIATE. PER SPEC'S. REMOVE AND REPLACE DEAD AND DISEASED PLANTS CONSIDERED BEYOND TREATMENT	MINIMUM 2 TIMES PER YEAR (3/15-4/30 and 10/1-11/30)

Micro-Bioretention Planter Box Facility PB-7-E,F,G, and H Design Information					
ID	Descriptor	Facility PB-7-E	Facility PB-7-F	Facility PB-7-G	Facility PB-7-H
Elev. "A"	Top of Planting Media	Design 660.00'	460.00'	459.00'	458.00'
	As-Built				
Elev. "B"	Top of Sand	Design 656.50'	456.50'	455.50'	454.50'
	As-Built				
Elev. "C"	Top of Gravel	Design 656.00'	456.00'	455.00'	454.00'
	As-Built				
Elev. "D"	PVC Underdrain Invert	Design 655.00'	455.00'	454.00'	453.00'
	As-Built				
Elev. "E"	Bottom of Aggregate	Design 654.75'	454.75'	453.75'	452.75'
	As-Built				
Elev. "F"	Weir/Overflow and ESDv Elev.	Design 660.50'	460.50'	459.50'	458.50'
	As-Built				
Elev. "H"	10-Year Ponding Elev.	Design 660.78'	460.80'	459.81'	462.71'
	As-Built				
Elev. "G"	Min. Top of Wall	Design 661.00'	461.00'	460.00'	459.00'
	As-Built				
Facility Surface Area		Design 264 sq. ft.	303 sq. ft.	296 sq. ft.	455 sq. ft.
		As-Built			
ESDv Provided		Design 554 cu. ft.	636 cu. ft.	622 cu. ft.	956 cu. ft.
		As-Built			
Total Perforated Underdrain Length for PB-7-E,F,G,H		Design 106.00'			
		As-Built			
Receiving Storm Drain Str.		206	206	206	206
*See Detailed Plan Views & Details for More Information.					

NOTE: Contractor shall confirm that dimensions, inflow locations, roof leader locations and other design elements of ALL ESD/SWM facilities as shown on these plans are coordinated with architectural and other trade plans. If any discrepancies are found, the Contractor is to contact the design engineer and architect prior to proceeding with construction. Site utilities are to be constructed in locations shown. If a utility location is changed and is found to conflict with a ESD/SWM facility, the facility must be reviewed and approved by the County, Design Engineer, Architect and appropriate trade prior to utility construction. Modifications to the Stormwater Management Plan will require a formal revision to the plan with the Montgomery County Department of Permitting Services, which will include applicable plan revision fees, and may not be acceptable.

SM#285890

SC014PB7EFGH

SC#286335

SWM PB-7-E,F,G,H PLAN VIEW AND DETAILS

#### ARCHITECT



9211 CORPORATE BLVD, SUITE 340  
ROCKVILLE, MD 20860  
301-770-8177(P) 301-330-3224(F)

#### CIVIL

**MACRIS, HENDRICKS & GLASCOCK**  
9220 WIGHTMAN RD, SUITE 120  
MONTGOMERY VILLAGE, MD 20886  
301-670-0840(P)

#### STRUCTURAL

#### COMPREHENSIVE

#### STRUCTURAL SOLUTIONS

9220 WIGHTMAN RD, SUITE 120  
MONTGOMERY VILLAGE, MD 20886  
240-200-5599(P)

#### MECH/ELECTRICAL/PLUMBING

#### JAMES POSEY ASSOCIATES

11155 RED RUN BLVD, SUITE 310  
BALTIMORE, MD 21117  
410-265-6100(P)

#### KITCHEN

#### NYIKOS-GARCIA

#### FOODSERVICE DESIGN, INC

18219-A FLOWER HILL WAY  
GAITHERSBURG, MD 20879  
240-683-9530 (P)

#### SUSTAINABILITY

#### DOO CONSULTING, LLC

531 PICCADILLY ROAD  
BALTIMORE, MD 21204  
443-653-3792 (P)

#### CONSTRUCTION MANAGER

#### SKANSKA USA BUILDING INC.

700 KING FARM BLVD, SUITE 200  
ROCKVILLE, MD 20850  
301-795-3100 (P)

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No.: 16905, Expiration Date: 4.21.2022.

PROFESSIONAL SEAL:

#### PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
1	BID DOCUMENTS	10/21/2020
2	ADDENDUM #2	11/25/2020
3	ADDENDUM #3	12/01/2020
4	ADDENDUM #4	12/03/2020

TAX MAP FTR2

WSSC 22ANW09

PLAT 12762

9TH ELECTION DISTRICT  
CITY OF GAITHERSBURG, MD

**GAITHERSBURG  
CLUSTER  
ELEMENTARY  
SCHOOL #8**

**MONTGOMERY  
COUNTY PUBLIC  
SCHOOLS**

SHEET TITLE:

**SOIL EROSION,  
SEDIMENT CONTROL  
AND STORMWATER  
MANAGEMENT PLAN**

PROJECT NO:

19007

DATE:

12/04/20

SCALE:

1"=30'

SHEET NO:

**C4.08**

Sheet 14 of 28